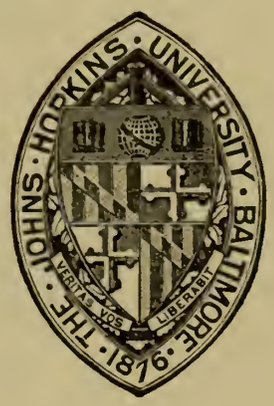
THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND

CONFERRING OF DEGREES

AT THE CLOSE OF THE SEVENTY-SECOND ACADEMIC YEAR

JUNE 8, 1948



GILMAN HALL TERRACE

AT ELEVEN A. M.

ORDER OF PROCESSION

CHIEF MARSHAL

G. Heberton Evans, Jr.

Divisions	*Marshals*
1. The President of the University, the Chaplain, Honored Guests, the Trustees	Sidney Painter
2. The Faculty	Trueman Thompson
3. The Graduates	Howard E. Cooper, *Chief* Richard T. Cox John C. Geyer Thomas F. Hubbard Acheson Duncan N. Bryllion Fagin Richard H. Howland Gilbert F. Otto W. Halsey Barker Charles A. Barker Henry T. Rowell

USHERS

W. Noel Johnston—*Chief Usher*

John E. Feathers
Charles R. Higdon, Jr.
Louis V. Koerber
Sidney Offitt
C. Raymond Pohl
J. Hamilton Seth
Mark M. Stokes
Grant C. Vietsch

ORGANIST

John Varney

The audience is requested to stand as the academic procession moves into the area and remain standing until after the Invocation.

ORDER OF EXERCISES

I

PROCESSIONAL

II

INVOCATION

The Reverend HARRIS E. KIRK

Franklin Street Presbyterian Church

III

ANNOUNCEMENTS AND GREETINGS TO GRADUATES

The President of the University

IV

ADDRESS TO GRADUATES

"History is Past Politics and Politics are Present History"

LINDSAY ROGERS

Professor of Public Law and Government
Columbia University

V

CONFERRING OF HONORARY DEGREES

Presentation of Candidates

Dr. LEO WOLMAN — presented by Dr. CLARENCE LONG
Dr. JOHN DICKINSON — presented by Dr. CARL B. SWISHER
Dr. LINDSAY ROGERS — presented by Dr. V. O. KEY

VI

CONFERRING OF DEGREES

Bachelors of Arts — presented by Dean SHAFFER

Bachelors of Engineering — presented by Dean KOUWENHOVEN
Bachelors of Science in Engineering
Masters of Science in Engineering
Masters of Engineering
Doctors of Engineering

Bachelors of Science in Business — presented by Dean HAWKINS

Bachelors of Science — presented by Dean HORN
Bachelors of Science in Nursing

Masters of Education — presented by Professor WHITELAW
Doctors of Education

Masters of Science in Hygiene — presented by Dr. STEBBINS
Doctors of Science in Hygiene
Masters of Public Health
Doctors of Public Health

Doctors of Medicine — presented by Dean CHESNEY

Masters of Arts — presented by Professor LANCASTER
Doctors of Philosophy

VII

BENEDICTION

VIII

RECESSIONAL

The audience is requested to remain standing after the Benediction until the graduates have left the area.

CANDIDATES FOR DEGREES

BACHELORS OF ARTS

Benjamin Mark Adler, of Maryland
Leonard Edwin Albert, of Maryland
John Augustine Ambrose, of Wisconsin
Joseph Bernard Axelman, of Maryland
Timothy Danforth Baker, of Maryland
Peter Paul Barlow, of Michigan
William Becque, of Maryland
Donald Arthur Bell, of Maryland
William Benjamin, of Maryland
Oscar Suter Benson, Jr., of Maryland
Peter Henry Berning, of Massachusetts
Paschal Biagini, of New York
Robert Patsy Biunno, of New Jersey
Eugene Blank, of Maryland
Jay Marvin Braude, of New York
Howard Matheson Bubert, Jr., of Maryland
Charles Owen Burgess, Jr., of New York
James Kenneth Cage, of New York
John Gering Cashell, of Maryland.
Thomas Beale Cockey, III, of Maryland
Charles Maurice Collins, of Michigan
Robert Stanley Coplan, of Maryland
James Stewart Cottman, of Maryland
Billy Wilson Davis, of Kentucky
Samuel Wilson Deisher, of Pennsylvania
Anthony John DiGiovanni, of Maryland
David Clarence Dorr, of Maryland
Lawrence Deems Egbert, Jr., of Maryland
Simon Eugene Ehrlich, of Maryland
James Holliday Emich, of Maryland
Roland Ellsworth English, of Maryland
Philip Harry Ennis, of Maryland
Leonard Joseph Ezersky, of Maryland
Elliott G. Falk, of Maryland
Alexander Littlejohn Feild, Jr., of Maryland
Rashi Fein, of Maryland
John Paul Foxworthy, of Georgia
Robert Sidney Friedman, of Maryland
Robert Anthony Gaertner, of Maryland
Michel George Gilbert, of New York
Harry Goldman, Jr., of Maryland
Thomas Edward Gompf, of Maryland
Franklin Abbott Greene, Jr., of Maryland
Randall Hagner Greenlee, of Maryland
Richard Eugene Hanson, of New Jersey
Birt Harvey, of New York
Charles Leaphart Hash, of Maryland
Norval John Hawkins, of Maryland
John Mickle Hemphill, II, of Maryland
Samuel David Herman, of Maryland
Donald Lock Hildenbrand, of Maryland
Alfred Irwin Hopkins, of Virginia
Horace Wesley Hurley, of New York
Thomas Lee Jasper, of Kentucky
Martin Kohn, of Pennsylvania
Jerome Kremen, of Maryland
Eleazer Frederick Laschever, of Connecticut
Richard Arthur Leavell, of Michigan
Israel Robert Lehman, of Maryland
Oscar Mitchell Lemoine, Jr., of Maryland
Daniel Herbert Levin, of Maryland
Sidney Levin, of Maryland
Jack Libert, of Maryland
Ray Bowne Loy, of Maryland
John Blatter Mahool, Jr., of Maryland
Daniel Herbert Margolis, of West Virginia
Willam Harvey McLean, Jr., of Kentucky
Thomas Wilbur Meads, Jr., of Maryland
Eduardo Jose Medina, of Puerto Rico
David Laurence Meggison, of Massachusetts
Jules Miller, of Maryland
Stanley Ivan Minch, of Maryland
William Edward Moore, of Maryland
Jack Usher Mowll, of Maryland
Theodore Vandoren Parran, of Maryland
Burton Marvin Pogell, of Maryland
Felix Drucker Posen, of New York
Thomas Carnes Price, Jr., of Maryland
Harold Smith Ramos, of Georgia
Herbert Joseph Rapoport, of Maryland
Howard Frank Raskin, of Maryland
Thomas Allen Ray, of the District of Columbia
Raphael Benjamin Reider, of Pennsylvania
Milton Rinehart Roberts, of Maryland
Stephen Roll, of Pennsylvania
Louis Sidney Rosenthal, of Maryland
Raphael Albina Rossetti, of Maryland
James Clare Rubright, of Ohio
Joel Sherwin Salzman, of Florida
Charles Thomas Sands, III, of Maryland
H. William Sause, of Maryland
Herbert Leo Scharf, of Maryland

William Richard Schmidt, Jr., of Maryland
Seymour Schmukler, of Maryland
Joseph Frederick Schreiber, Jr., of Maryland
Norman Philip Schreibfeder, of Virgina
Mervin Shalowitz, of Illinois
Richard Arnold Sindler, of Maryland
Eliot Siskind, of Maryland
Sol Spitzer, of New Jersey
Norton Spritz, of Maryland
Joseph Hauver Stephens, of Maryland
George Judson Stiles, of Maryland
Nathan Adler Strauss, of Maryland
Morton Jerome Stussman, of Maryland
Richard Samuel Tankin, of Maryland
James Roy Troxel, of Maryland
José Roberto Van Beverhoudt, of Panama
Eli Velder, of Maryland
Henry Nicholas Wagner, Jr., of Maryland
Robert Martin Wald, of Illinois
Sims Oscar Watson, Jr., of Maryland
Donald Weisman, of Maryland
Elliott Lionel Weitzman, of Maryland
Harvey William Weldon, of Iowa
Richard Miller Whitehorn, of Maryland
Edmund White Winchester, of Maryland
William Hood Wishmeyer, of Maryland
Warren Wilbur Wurzbacher, of Maryland
James Anderson Young, of Maryland

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GRADUATING WITH HONOR

Paschal Biagini, of New York
Jay Marvin Braude, of New York
Elliott G. Falk, of Maryland
Robert Anthony Gaertner, of Maryland
Martin Kohn, of Pennsylvania
Thomas Wilbur Meads, Jr., of Maryland
William Edward Moore, of Maryland
Seymour Schmukler, of Maryland
William Hood Wishmeyer, of Maryland

BACHELORS OF ENGINEERING

Hagop Hovsep Alexanian, of Florida
Joseph Lyman Anderson, Jr., of Maryland
Oliver Auodoun, Jr., of Maryland
Howard Cromwell Bailey, of Maryland
Richard Edward Barrans, of Maryland
Harry Burgess Beard, Jr., of Maryland
Jacob Beser, of Maryland
Charles Chester Bigelow, of Maryland
William Raber Boenning, of Maryland
Henry Maurice Boettinger, of Maryland
Leon Brill, of Maryland
Robert Dewald Brooks, of Maryland
Leo Joseph Brzozowski, of Maryland
Leonard Sidney Buchoff, of Maryland
Howard Lee Caplan, of Maryland
James Dracy Carlton, of Florida
Allen Marvin Carton, of Maryland
Eric Paul Cizek, of Maryland
Robert Monroe Clementson, of Virginia
Donald Myron Cohen, of Connecticut
Stephen Edward Collins, of Maryland
Bernard Chester Cwalina, of Maryland
Thomas Dickerson Dawes, of Maryland
George Roland Dehoff, Jr., of Maryland
Warren Lee Diver, of Maryland
Joseph John Drechsler, of Maryland
Martin Joseph Dudek, Jr., of Maryland
Russell Evan Dukehart, of Maryland
George Howard Eichner, of Maryland
Warren Davidson Elliott, of Maryland
Benjamin Clement Ellis, Jr., of Maryland
Willam Charles Farrell, Jr., of Maryland
Paul David Flynn, of Maryland
Robert Bruce Fowler, of Maryland
Richard Paul Franke, of Maryland
Charles Lester Friese, of Maryland
Guy Frederic Fowble Garman, of Maryland
James Hugh Gattens, of Maryland
Bernard Victor Gerber, of Maryland
John Walter Gibson, of Maryland
John William Gore, Jr., of Maryland
Willis Carroll Gore, of Maryland
Alan Herbert Greene, of Massachusetts
John Gregory Gregory, of Maryland
Joseph Oliver Hannibal, Jr., of Maryland
Edward Charles Harry, of Maryland

Carroll Delauney Hennick, of Maryland
Fritz Max Hessemer, of Maryland
George Henry Hoffman, of Maryland
George William Holdefer, of Maryland
Alexander Richard Jagielski, of Maryland
Emil Leonard Johnson, Jr., of Maryland
Loren Chapman Jones, of Maryland
Stanley Roy Kalin, of Maryland
Nathan Karasik, of Maryland
Lawrence Katz, of Maryland
Stanley Kaufman, of Maryland
Wilmer Kerber, Jr., of Maryland
Jay William Kerpelman, of Maryland
Russell John Klingenmeier, Jr., of Maryland
James Gardner Kuller, of Maryland
Henry Carrington Lancaster, Jr., of Maryland
Ellward Laskin, of Maryland
Edwin Bergner Lehnert, of Maryland
Frederick William Link, Jr., of Maryland
Clarence Wilbur Little, Jr., of Illinois
Raymond Daniel Lombard, of Maryland
Harry McMahan Louden, of Maryland
Willem Eliza Löwer, of The Netherlands
William Raymond Magness, of Maryland
Wilbur Lucian Manley, of Maryland
Joseph James Martina, of New York
Thomas Massey, Jr., of Maryland
John Leo McKewen, of Maryland
Aaron Louis Medin, of Maryland
Morton Herbert Meyer, of Maryland
Richard Calvin Michael, of Maryland
Lewis Michnik, of Maryland
Henry Hudson Myers, Jr., of Maryland
John James Novotny, of Maryland
Jerome Sidney Osmalov, of Virginia
Raymond Lee Outen, of Maryland
Joseph Edward Padgett, Jr., of Maryland
Bernard Dov Panitz, of Virgina
Joseph Greene Peeler, Jr., of Maryland
Charles Richard Picek, of Maryland
Joseph Edward Pipkin, of Maryland
Albert Henry Plantholt, of Maryland
William Gustav Rasch, II, of Maryland
Howard A. Ricci, of Maryland
Donald M. Sandler, of Maryland
Charles Besler Scharp, of Maryland
Adrian Donald Schmidt, of Maryland
Edwin Simon Schmucker, Jr., of Maryland
Richard David Schwab, of Maryland
Nelson Hirsh Shapiro, of the District of Columbia
Irving Stanley Sherman, of Maryland
John William Siegmund, of Maryland
Melvin Wilmer Smith, of Maryland
Raymond Smith, of Maryland
Eugene Harry Stombler, of Maryland
Verne Clarke Strible, of Maryland
Lawrence Albert Swindell, of Maryland
Marvin Max Tenberg, of Maryland
Thomas Anthony Tosches, of Maryland
William Brooke Tunstall, of Maryland
Richard Leo Vitek, of Maryland
Ellis Sturman White, of Maryland
William Stewart Wilkinson, of Maryland
Jesse Lewis Williams, of Maryland
George Willam Winter, of Maryland
John Henry Winter, Jr., of Maryland
Melvin Martin Wolock, of Maryland
Ralph Conrad Young, of Maryland
Gerard Joseph Zeller, of Maryland

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GRADUATING WITH HONOR

Henry Maurice Boettinger, of Maryland
Robert Monroe Clementson, of Virginia
Warren Lee Diver, of Maryland
Paul David Flynn, of Maryland
Willis Carroll Gore, of Maryland
Clarence Wilbur Little, Jr., of Illinois
Joseph Edward Padgett, Jr., of Maryland

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Francis Xavier McNally, of Maryland (1)

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Allen Merritt Sheeder, of Maryland (1)

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Reginald Bertrand Roberts, of Maryland (1)

MASTERS OF SCIENCE IN ENGINEERING

WITH TITLES OF ESSAYS

Charles Bertram Boenning, of Pennsylvania, B. E. The Johns Hopkins University, 1943. Electrical Engineering.

Dielectric Heating.

John Buchanan Bond, of Illinois, B. S. United States Military Academy, 1943. Electrical Engineering.

An Antenna for a New Variable Frequency Ground Radar.

Dodd Stewart Carr, of Maryland, B. S. Loyola College, 1945. Chemical Engineering.

Solutions for Maintaining Constant Relative Humidity.

John Merriken Carter, of Maryland, B. S. in E. E. University of Maryland, 1941. Electrical Engineering.

Crystal Rectifiers as Reactance Type Linear Frequency Modulators.

Nazir Ahmad Chowdhry, of Pakistan, B. S. Punjab University, 1935; M. Sc. Muslim University, 1937. Chemical Engineering.

Water Absorption and Electrical Properties of Laminated Plastics.

Richard William Cole, of Maryland, B. S. Michigan State College, 1941. Electrical Engineering.

A Miniature Radio Frequency Operated High-Voltage Power Supply.

Raymond Charles Crippen, of Illinois, B. S. Iowa State College, 1939. Chemical Engineering.

The Determination of Styrene in Co-Polymeric Hydrocarbon Resins.

George Williams Derrickson, of Pennsylvania, B. M. E. University of Delaware, 1941. Mechanical Engineering.

The Thermodynamic Approach in the Design of Axial Flow Compressors.

Ellsworth Noel Diver, of Maryland, B. E. The Johns Hopkins University, 1940. Civil Engineering.

An Analysis of an Indeterminate Aircraft Frame.

Harrison Morton Diver, Jr., of Maryland, B. E. The Johns Hopkins University, 1937. Civil Engineering.

Unsymmetrical Flat Slabs.

Abd El-Maguid El-Kayar, of Egypt, B. S. Fouad First University, Cairo, 1946. Mechanical Engineering.

A History of Furnace Development.

Mohamed Ali Ali Farag, of Egypt, B. S. Fouad First University, Cairo, 1940. Sanitary Engineering.

Behavior and Hydraulics of Rapid Sand Filters.

George Owen Fellers, of Maryland, B. S. in C. E. Dartmouth College, 1946. Civil Engineering.

Limit Design.

Joseph Leo Gessler, Jr., of Maryland, B. S. Loyola College, 1945. Chemical Engineering.

Heat Transfer Coefficients to Boiling Liquids in the Film Boiling Region.

Kenneth Holmes Grim, of Maryland, B. E. The Johns Hopkins University, 1944. Mechanical Engineering.

An Analysis of a Super-Regenerative Power Cycle.

Jerome Grossman, of New York, B.Ch. E. Brooklyn Polytechnic Institute, 1944. Chemical Engineering.

Deactivation of GR-S Popcorn Polymer with Nitrogen Dioxides.

Lewis Franklin Hicks, of Maryland, B. E. The Johns Hopkins University, 1944. Mechanical Engineering.

The Effect of Frequency on Ultra-Sonic Measurements in Superheated Steam.

John Thomas Hodges, of Maryland, B. M. E. Cornell University, 1943. Mechanical Engineering.

The Relative Spontaneous Heating Tendencies of Coals.

Maxwell Morrison Kallman, of Maryland, B. S. United States Military Academy, 1936. Electrical Engineering.

A New Method of Presenting Frequency Response Characteristics of Certain Type Servomechanisms.

Robert Malcolm Kennedy, of California, A. B. in C. E. Stanfard University, 1938. Sanitary Engineering.

The Effects of Certain Organic Colloids on the Formation of Alum Floc.

Dalbir Chandra Kochhar, of India, B. S. The University of Punjab, 1942; M. S. 1943. Chemical Engineering.

Gas Phase Reaction of Water and Ethylene on Alumina Catalysts.

Louis Calvin Laird, of Maryland, B. E. The Johns Hopkins University, 1947. Civil Engineering.

Nomograms for the Combined Stress Formulae.

Harry Mitchell Lawson, of Massachusetts, B. E. The Johns Hopkins University, 1939. Mechanical Engineering.

An Experimental Determination of the Ratio of Specific Heats of Freon 12 by Ultrasonic Methods.

Gilbert Victor Levin, of Maryland, B. E. The Johns Hopkins University, 1947. Sanitary Engineering.

The Effects of Ultrasonic Waves on Some Physical and Chemical Properties of Water.

Converse Rising Lewis, Jr., of Maryland, B. S. Agricultural and Mechanical College of Texas, 1941. Sanitary Engineering.

A Study of the Correlation Between Threshold Odor and Total Nitrogen and the Effect of Storage on the Odor of Untreated and Filtered Impounded Water.

Samuel Morton Lipnick, of Maryland, B. E. The Johns Hopkins University, 1943. Chemical Engineering.

A Study of the Effect of Low Concentrations on the Efficiency of a Packed Distilling Column.

Frank Greenwood Lord, of Tennessee, B. E. Vanderbilt University, 1939. Sanitary Engineering.

The Application and Limitations of Hypochlorite Sterilization of Water During Flocculation.

Walter Alphons Lyon, of North Carolina, B. E. The Johns Hopkins University, 1947. Sanitary Engineering.

The Effects of Ultrasonics on Suspended Matter in Water.

Francis K. Y. Mau, of Hawaii, B. S. University of Hawaii, 1947. Sanitary Engineering.

The Ground Water Situation on the Island of Oahu, Hawaii.

James Markus Morgan, Jr., of Virginia, B. S. Virginia Military Institute, 1946. Sanitary Engineering.

The Efficiency of the Cumberland Pool as a Sewage Treatment Plant.

Mohamed Abu Naser, of Pakistan, B. S. Daca University, 1942; M. S. 1943. Chemical Engineering.

The Effect of Variation of Moisture Content of Paper and Resin on the Electrical Properties of the Finished Laminates.

Shigeo Okubo, of Hawaii, B. S. University of Hawaii, 1937; M. S. 1939. Civil Engineering.

Study of Bending and Direct Stresses Resulting in Net Tension in Reinforced Concrete Members.

Younes Amin Omar, of Egypt, B. S. Fouad First University, Cairo, 1939. Electrical Engineering.

Centimeter Wave Magnetron Measurement Techniques.

Dat Quon Pang, of Hawaii, B. S. University of Hawaii, 1945. Civil Engineering.

Review and Analysis of the Financial Operations of the Pennsylvania Turnpike.

Isadore Alvin Pasarew, of Maryland, B. E. The Johns Hopkins University, 1930. Sanitary Engineering.

A Functional Plan for a Baltimore Metropolitan District.

Ralph Patrick Pass, Jr., of Maryland, B. E. The Johns Hopkins University, 1947. Civil Engineering.

Prestressed Concrete.

Alfredo Passaro, of Italy, Dr. Eng. University of Naples, 1944. Sanitary Engineering.

Hydraulics of Filter Underdrainage Systems.

Robert Daniel Perry, of Maryland, B. S. M. E. Stevens Institute of Technology, 1946. Mechanical Engineering.

An Evaluation on the Sub-Saturation Cycle for Steam Turbines.

David Wilson Pohmer, of Maryland, B. S. in Agriculture, University of Maryland, 1946; B. S. in Engr. 1947. Sanitary Engineering.

A Study of Certain Agents Influencing the Hydrology of the Baltimore Harbor.

Ralph Harper Pryor, of Maryland, B. S. Ch. E. Michigan State College, 1929. Aeronautics.

The Stability of a Beam Riding Missile.

Gilbert Francis Renoff, of Maryland, B. E. The Johns Hopkins University, 1943. Electrical Engineering.

Power Circuit Breakers.

Robert George Roush, of Maryland, B. E. The Johns Hopkins University, 1943. Electrical Engineering.

A Two-Channel Electronic Switch.

Wendell Burley Sell, of California, B. S. United States Military Academy, 1940. Electrical Engineering.

A Survey of Cold Cathode Ray Oscillography.

Saul Taragin, of Maryland, B. E. The Johns Hopkins University, 1938. Electrical Engineering.

Transmission and Distribution Line Short Circuit Protection and Coordination of Fuses with Circuit Breakers.

Arthur William Tayman, of Maryland, B. S. The Johns Hopkins University, 1938; B. S. in C. E. 1943. Sanitary Engineering.

Collection and Disposal of Refuse in Baltimore County, Maryland.

Theodore S. Toppen, of Maryland, B. S. C. E. Georgia School of Technology, 1943. Sanitary Engineering.

Control of Algae in Reservoirs Storing Treated Sewage Effluent.

Sven Tornmarck, of Sweden, C. E. Royal Institute of Technology, Stockholm, 1942. Mechanical Engineering.

The Supersonic Compressor.

Thomas Neil Uffelman, of Tennessee, B. E. Vanderbilt University, 1936. Sanitary Engineering.

The Effects of Temperature on Filtration.

Philip Leroy Walker, Jr., of Maryland, B. E. The Johns Hopkins University, 1947. Chemical Engineering.

Viscosity of Air, Nitrogen, Argon, and Steam.

Donald Drysdale Williams, of Canada, B. E. McGill University, 1941. Mechanical Engineering.

Wet Compression.

MASTERS OF CHEMICAL ENGINEERING

WITH TITLES OF ESSAYS

JOSHUA SHELTON BOWEN, JR., of Maryland, A. B. Western Maryland College, 1939; B. E. The Johns Hopkins University, 1941. Chemical Engineering.

Specific Heats for Air, Nitrogen, Oxygen, and Water Vapor as Calculated from Spectroscopic Data.

WILLIAM GILMOUR CARSON, of Pennsylvania, A. B. Swarthmore College, 1944. Chemical Engineering.

The Effect of Drying on the Properties of Paper-Base Laminated Plastics.

CARROLL L. LLOYD, of Maryland, B. E. The Johns Hopkins University, 1944. Chemical Engineering.

The Deposition of Scratch Resistant Transparent Films on Optical Plastics by the Evaporation Mechanism.

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MASTERS OF ELECTRICAL ENGINEERING

WITH TITLES OF ESSAYS

EDWARD JOSEPH BOBYN, of Canada, B. S. Engr. University of Saskatchewan, 1944. Electrical Engineering.

Solution of Differential Equations with Feedback Amplifiers.

LEON JOSEPH L'HEUREUX, of Canada, B. A. University of Ottawa, 1940; B. S. University of Saskatchewan, 1944. Electrical Engineering.

Transient and Steady State Analysis of Control Systems.

ROLAND VIRGIL TIEDE, of Maryland, A. B. Oberlin College, 1933; B. S. University of California, 1941. Electrical Engineering.

An Investigation into the Characteristics of Small Servo Induction Motors.

(3)

DOCTORS OF ENGINEERING

WITH TITLES OF DISSERTATIONS

MANNES HERMAN FISHEL, of Maryland, B. E. The Johns Hopkins University, 1943. Civil Engineering.

Columns of Variable Moment of Inertia.

GORDON PAGE FISHER, of Maryland, B. E. The Johns Hopkins University, 1942. Civil Engineering.

An Experimental Study of the Reactions of a Two Span Skewed Rigid Frame Bridge.

HENRY GOLDSMITH, of Maryland, B. E. The Johns Hopkins University, 1945; M. S. 1947. Chemical Engineering.

Catalytic Liquid-Phase Hydration of Ethylene.

ROBERT JOSEPH JEFFRIES, of Maryland, B. S. E. E. University of Connecticut, 1944; M. S. University of Virginia, 1946. Electrical Engineering.

Measurement of the Dynamic Characteristics of Essentially Linear Motions.

ALVIN CONRAD LOEWER, JR., of Maryland, B. E. The Johns Hopkins University, 1942. Civil Engineering.

Bond Measurement in Reinforced Concrete.

JOSEPH THOMAS STEGMAIER, of Maryland, B. E. The Johns Hopkins University, 1943. Civil Engineering.

A Study of the Traffic Generated and Parking Demand Created by Buildings with Various Types of Space Usage.

EBENEZER VEY, of California, B. S. California Institute of Technology, 1941; M. S. 1942; C. E. 1943. Civil Engineering.

Electro-Osmotic Effects in Soil Consolidation.

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BACHELORS OF SCIENCE IN BUSINESS

Glyn Edward Aleshire, of Maryland
William Alsberg, of Pennsylvania
George Albert Bachtell, of Maryland
Nelson Davis Barnes, of Maryland
Alfred W. Barry, Jr., of New York
William Robert Benson, of Maryland
Kenneth L. Billingsley, of Maryland
Owen William Blum, of Maryland
Noel Blair Hunter Cochrane, of Maryland
George Birely Delaplaine, Jr., of Maryland
Philip Forsythe Dodge, of Maryland
Randolph Ridgely Fisher, of Maryland
Richard Daniel Folkoff, of Maryland
Erwin Julian Fried, of Maryland
Kenneth Golberg, of Maryland
Melvin Raymore Greene, Jr., of Maryland
Leonard Mark Greenebaum, of Maryland
Stanley Irvin Greenebaum, of Maryland
Sylvan Hack, of Maryland
Thomas Richard Haff, of Maryland
Richard Edmond Harman, of Maryland
John Rich Holland, Jr., of Maryland
Edward Holzman, of Maryland
Donald Paul Honig, of New York
Robert Cyrus Kearney, of Maryland.
Cordell Clement Kirkman, of Maryland
John Isaiah Leopold, of Maryland
August Lawrence Martin, Jr., of Maryland
Paul Frederick Matthai, of Maryland
John Milton McCall, Jr., of Maryland
William Sydney McConnell, Jr., of Maryland
John Waldron McGovern, Jr., of Maryland
Benjamin Irvin McGowan, Jr., of Maryland
Hartman John Miller, of Maryland
Robert Walter Miller, Jr., of Maryland
Frederick Edward Norman, of Virginia
U. S. Grant Peoples, of Maryland
Herman Samuel, of Maryland
John Raymond Schneid, of New York
Kenneth Seidel, of New Jersey
Raymond Miles Staley, of Maryland
Leo Bernard Swinderman, of Maryland
John Bisbee Walker, of Maryland
Gordon Hamilton Witherspoon, of Maryland
Philip Chancellor Wroe, Jr., of Maryland

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GRADUATING WITH HONOR

Benjamin Irvin McGowan, Jr., of Maryland
Robert Walter Miller, Jr., of Maryland
U. S. Grant Peoples, of Maryland
Herman Samuel, of Maryland
Leo Bernard Swinderman, of Maryland

BACHELORS OF SCIENCE

Jerome Hillel Abrams, of Maryland
Helen Smiley Bahr, of Maryland
Maude Lucille Barclay, of Maryland
Lillian Barnish, of Maryland
James Carroll Barrett, of Maryland
Philip Francis Bechtel, of Maryland
Emanuel Bennett, of Indiana
Jeanette Bernstein, of Maryland
George Hiss Black, of Maryland
Alice Helm Bosley, of Maryland
Thea Gilda Braiterman, of Maryland
Walter Henry Bramman, of Maryland
Herman Cairnes Burton, of Maryland
Rose Cabnet, of Maryland
Dorothy Mary Carroll, of Maryland
Mary Catherine Cohee, of Maryland
Francis James Cullen, of New York
Blanche Muriel Dann, of Maryland
Mary Laura Davidson, of Maryland
Frank Louis Dudek, of Maryland
Evelyn Bette Eliason, of Maryland
Leon Horwitt Fidler, of New York
Ilse Fried Fleischman, of Maryland
Ethel May Fowler, of Maryland
Mildred Wright Fowler, of Maryland
Werner J. Fries, of Maryland
Dorothy Elsie Gerting, of Maryland
Gertrude Charlotte Glaser, of Maryland
Samuel Clark Gover, of Maryland
Mildred Albert Greenfield, of Maryland
Earl Wilson Groves, of Maryland
Rosalie Bollinger Hardesty, of Maryland

Mary Elizabeth Henkel, of Maryland
Harriett Ruth Holden, of Maryland
Charles Louis Huang, of China
Sarah Helen Kamaroff, of Maryland
Doris Cecilia Kaminsky, of Maryland
Mary E. Conner Keithley, of Maryland
Judith Kidd, of Maryland
Anna Margaret Knabe, of Maryland
Walter Frederick Knox, of Maryland
John Edward Koontz, of Maryland
Joseph Thomas La Puzz, of New Jersey
Emma Cecilia Lee, of Maryland
Jennie Levin, of Maryland
William James Winship Lewis, of Maryland
May Lichter, of Maryland
Agnes Marie Luers, of Maryland
George Atkinson McLay, of Maryland
Elton Young Mears, of Maryland
Marilyn Mindell Melnikof, of Maryland
Myra Jean Mohler, of Maryland
Susannah Mohler, of Maryland
Jean Barry Molz, of Maryland
Virginia Dryden Moore, of Maryland
Ann Cora Muir, of Maryland
Ruth Henrietta Phillips, of Maryland
Reta Thelma Reisman, of Maryland
Rebecca T. Krausse Ritterhoff, of Maryland
Ida Ashman Roman, of Maryland
Marcia Zuriff Rothstein, of Maryland
Stanley Sacks, of Maryland
L. Marian Sanner, of Maryland
Benjamin Saxe, of Canada
Marie Chambers Schaefer, of Maryland
Marie Butzler Schmuck, of Maryland
Henry Otto Schulze, of Maryland
Lillian Shapiro, of Maryland
Helen Vivien Silverman, of Maryland
Anastasia Craig Steere, of the District of Columbia
Benjamin Stein, of Maryland
Charles Sussman, of Maryland
Frank Hammond Tucker, of North Carolina
William Brice Tulloss, of Maryland
Rudolpha Clark Turner, of Maryland
Shirley Lucille Willet, of Maryland
Mary Rosealba Wiseman, of Maryland
Norman Winfrey Wood, of Maryland
Theodore Alexander Woronka, of Maryland

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GRADUATING WITH HONOR

Alice Helm Bosley, of Maryland
Frank Louis Dudek, of Maryland
Ilse Fried Fleischman, of Maryland
Rosalie Bollinger Hardesty, of Maryland
Sarah Helen Kamaroff, of Maryland
Jean Barry Molz, of Maryland
Theodore Alexander Woronka, of Maryland

BACHELORS OF SCIENCE IN NURSING

Margaret M. Calnan, of Iowa
Mary Theresa Camiolo, of New York
Jacqueline Fay Dole, of Maine
Patricia Griffin, of Ohio
Lizzie Mae Krausse, of Maryland
Sallie Cook Lanier, of Georgia
Virginia Shea, of New York
Mary Frances Sullivan, of Connecticut
Mary Florence Williams, of Tennessee

(9)

MASTERS OF EDUCATION

WITH TITLES OF ESSAYS

Malcolm Davies, of Maryland, B. S. State Teachers College, Towson, Maryland, 1936. Education.

Edward Louis Kessler, of Maryland, B. S. The Johns Hopkins University, 1942. Education.

Is the Roman Catholic Church Entitled to Federal Financial Support for Its School System?

Sister Mary Roberta Wagner, R. S. M., of Maryland, B. S. The Johns Hopkins University, 1932. Education.

The Educational Program of Mount Saint Agnes Academy and High School, 1867-1947.

(3)

DOCTORS OF EDUCATION

WITH TITLES OF DISSERTATIONS

RUTH PEARL SIMON, of New York, A. B. Hunter College, 1940. Education.

The Semantic Demands of Primers in Relation to Success of Pupils.

DAVID WILLIAM ZIMMERMAN, of Maryland, A. B. Franklin and Marshall College, 1923; M. A. Columbia University, 1927. Education.

Factors Affecting the Cost of Pupil Transportation in Maryland

(2)

MASTERS OF SCIENCE IN HYGIENE

WITH TITLES OF THESES

MARTHA CHURCHILL EATON, of California, A. B. University of California, 1942. Biostatistics.

Record Systems for Organized Medical Care Programs With a Presentation of the System for the Baltimore City Medical Care Program.

SEYYEDEH MOLOUK MOTAMEDI, of Iran, B. A. Western College, 1942; M. A. Mt. Holyoke College, 1944. Bacteriology.

Studies on the Antibody Level of Influenza Virus in Man.

FRANCES JUNE NETHERY, of Oklahoma, B. A. University of Oklahoma, 1943. Bacteriology.

A Study of the Effect of Diphtheria Antitoxin Upon the Growth of the Tubercle Bacillus.

MANUEL REIMAO DA CUNHA PINTO, of Portugal, M. D. Oporto Faculty of Medicine, Portugal, 1938. Bacteriology.

The Susceptibility and Immunity of Rodents to Extra Neural Inoculation of the Lansing Strain of Poliomyelitis Virus.

HARRIET TUTELMAN, of Pennsylvania, A. B. Goucher College 1946. Biochemistry.

A Study of the Behavior of Surviving Embryonic Chick Tissues in Media of Known Chemical Composition.

(5)

DOCTORS OF SCIENCE IN HYGIENE

WITH TITLES OF DISSERTATIONS

EMLEN JOHN BELL, of Montana, B. S. North Dakota State College, 1934; M. S. University of Minnesota, 1937. Bacteriology.

The Relationship Between the Antipoliomyelitic Properties of Human Nasopharyngeal Secretions and Blood Serum.

JOHN LLOYD BRADIN, JR., of Michigan, B. S. Northwestern University, 1945. Parasitology.

Studies on the Biology of *Entamoeba Histolytica* in Cultures.

EDITH MARY DARROW, of Maryland, B. S. Iowa State College, 1943. Parasitology.

Factors in the Elimination of the Immature Stages of *Anopheles Quadrimaculatus* Say in a Water Level Fluctuation Cycle.

ELIZABETH STARBUCK MAXWELL, of Alabama, S. B. University of Alabama, 1938. Bacteriology.

Studies on the Relationship of Influenza Virus Infection and Bacterial Pneumonia in Man.

ELVIO HERBERT SADUN, of Massachusetts, B. A. Leghorn Scientific Lyceum, Italy, 1936; M. A. Harvard University, 1942. Parasitology.

Studies on Immunity in Chickens to *Ascaridia Galli.*

JOHN CLEAVER WAGNER, of Maryland, B. S. Pennsylvania State College, 1938. Bacteriology.

Studies on Immunity and Chemotherapy in Experimental Psittacosis.

(6)

MASTERS OF PUBLIC HEALTH

Richmond Karl Anderson, of Maryland, A. B. Cornell College, 1929; Ph. D. Northwestern University, 1934; M. D. 1937.

Robert William Babione, U. S. Navy, A. B. Oberlin College, 1924; M. D. Western Reserve University, 1930.

Clifford Arthur Bachrach, of New York, B. A. Cornell University, 1937; M. D. 1941.

Marshall Coulter Balfour, of New York, B. S. Massachusetts Institute of Technology, 1918; M. D. Harvard University, 1926.

Jerauld Alexander Campbell, of New York, M. D. University of Buffalo, 1931.

Chidambara Chandrasekaran, of India, M. Sc. Nagpur University, India, 1932; Ph. D. London University, 1938.

George Chao-T'ung Chang, of China, B. S. Yenching University, China, 1934; M. D. National Medical College of Shanghai, China, 1939.

Hubert Dinwiddie Crow, of Virginia, B. S. North Carolina State College, 1933; M. D. Medical College of Virginia, 1938.

Charles Edward Curtis, U. S. Navy.

Ben Harrison Dean, of California, D. V. M. Kansas State College, 1932.

Percy Francis de Caires, of British Guiana, M. B., Ch. B. Edinburgh University, 1938.

Melville Day Dickinson, Jr., of New York, B. S. Union College, 1924; M. D. Harvard University, 1928.

William Joseph Dougherty, U. S. Navy, B. A. Boston College, 1935; M. D. Georgetown University, 1939.

Luis Baltazar Franco, of the Philippine Islands, M. D. University of the Philippines, 1938; C. P. H. 1940.

Leon Lloyd Gardner, U. S. Army, A. B. Pomona College, 1916; M. A. University of Pennsylvania, 1919; M. D. 1920.

Robert Cabaniss Gaskill, U. S. Army, B. A. University of Texas, 1922; M. D. 1929.

Chester Alex Gleiser, U. S. Army, V. M. D. University of Pennsylvania, 1940; M. Sc. Ohio State University, 1941.

Fred Wilson Harb, U. S. P. H. S., B. Sc. in Med. University of Nebraska, 1942; M. D. 1942.

George Gordon Hatfield, of Canada, B. Sc. Aurora College, 1931; M. D. C. M. Dalhousie University, 1936.

Pentti Juhani Hautera, of Finland, M. D. Helsinki University, 1944.

Henrietta Herbolsheimer, of Illinois, S. B. University of Chicago, 1936; M. D. 1938.

Robert Tedford Hewitt, U. S. P. H. S., M. D. University of Minnesota, 1938.

Eutrope Athenase Ho, of China, B. S. Soochow University, 1933; M. D. Peiping Union Medical College, 1937.

Arthur Clair Hollister, Jr., of California, B. S. Tulane University, 1938; M. D. 1941.

Edward Ainsworth Horr, U. S. Navy, A. B. University of Pennsylvania, 1943; M. D. 1946.

Charles Leroy Howell, of Indiana, D. D. S. Indiana University, 1946.

Paul William Hughes, of Florida, B. S. Bucknell University, 1939; M. D. College of Physicians and Surgeons, Boston, 1944.

Peter Constantin Issaris, of Greece, M. D. Athens University, 1929.

Lillian Jane Johnston, of New York, R. N. Hartford Hospital, Connecticut, 1923; B. S. Columbia University, 1942.

Leo Artur Kaprio, of Finland, M. D. Helsinki University, 1944.

Richard Volker Kasius, U. S. P. H. S., A. B. University of Chicago, 1941.

Ukko Pentti Kalervo Kokko, of Finland, M. D. Helsinki University, 1938.

Edward Kupka, of California, A. B. University of Michigan, 1923; A. M. 1926; M. B. Wayne University, 1927; M. D. 1928.

Cesar Jose Lesaca y Gonzales, of the Philippine Islands, B. S. University of Santo Tomas, 1941; M. D. 1945.

Alison Kinnier Macbride, of New Jersey, R. N. New York Presbyterian Hospital, 1930; B. S. Columbia University, 1940.

Robert George Marquardt, of New York, A. B. Cornell University, 1939; M. D. 1943.

Thomas Francis McGough, of Virginia, M. D. George Washington University, 1938.

Harlan Page McNutt, Jr., of Oregon, M. D. George Washington University, 1943.

Juan Luis Mella Morales, of Dominican Republic, M. D. University of Santo Domingo, 1946.

Serafin Montenegro Montenegro, of the Philippine Islands, A. A. University of Santo Tomas, 1935; M. D. University of the Philippines, 1940.

Edward Stevenson Murray, of Iowa, B. A. Coe College, 1930; M. D. University of Iowa, 1938.

Victor Campbell Myers, of Michigan, A. B. University of Missouri, 1936; M. D. Creighton University, 1940.

Andres Daniel Orellana Araujo, of Venezuela, M. D. Central University of Venezuela, 1934.

John Ralston Pate, of Kentucky, A. B., M. A., University of South Carolina, 1927; B. S., M. D., Duke University, 1933; LL. B. University of Louisville, 1945.

Thair Cozzens Rich, U. S. Army, A. B. University of Utah, 1927; M. D. University of Pennsylvania, 1930.

Arthur Eugene Rikli, U. S. P. H. S., B. A. North Central College, 1939; B. S., M. D., University of Illinois, 1944.

Dean Winn Roberts, of Maryland, A. B. Emory University, 1936; M. D. 1940.

Guillermo Eduardo Samamé Boggio, of Peru, M. D. Royal College of Physicians of Scotland, 1944.

Antonio Arnaldo de Carvalho Sampaio, of Portugal, M. D. University of Oporto Faculty of Medicine, Portugal, 1933.

Theodore Roosevelt Shrop, of Maryland, B. S. Mt. Union College, 1924; M. D. Ohio State University, 1927.

George Albert Silver, of Pennsylvania, B. A. University of Pennsylvania, 1934; M. D. Jefferson Medical College, 1938.

Harry Hubertus Cornelis Stapert, of The Netherlands, Med. Drs. Arts University of Utrecht, 1940.

Byron Ludwig Steger, U. S. Army, B. S. Ohio State University, 1931; M. D. 1933.

Ramalinga Sundaram, of India, M. B. B. S. Madras University, India, 1930; D. P. H. Calcutta University, India, 1940.

Satya Swaroop, of India, M. A. Delhi University, India, 1933; Ph. D. Punjab University, India, 1946.

Alberta Szalita-Pemow, of France, M. D. Warsaw University, 1936.

Jung-Chin T'ao, of China, B. S. Yenching University, China, 1939; M. D. National Central Medical College, China, 1943.

Ju-Sheng T'sai, of China, M. D. Peiping Union Medical College, China, 1941.

Ekrem Kadri Unat, of Turkey, M. D. University of Istanbul, Turkey, 1937.

Victor Collantes Valenzuela, of the Philippine Islands, M. D. University of the Philippines, 1941; C. P. H. 1942.

Edwin Van der Kuyp, of Curaçao, M. D. Medical School, Surinam, Dutch Guiana, 1938.

Frederick James Vintinner, of New Hampshire, B. S. University of New Hampshire, 1931.

Lyman Conrad Whittaker, of Massachusetts, B. A. Dartmouth College, 1942.

Frederick Winsor Whittemore, Jr., U. S. Army, B. S. University of Massachusetts, 1937; M. S. 1938; Ph. D. 1941.

Samuel Malcolm Wishik, of New York, B. A. Columbia University, 1926; M. D. 1929.

Mariano Garcia Yogore, Jr., of the Philippine Islands, A. A. University of the Philippines, 1940; M. D. 1945.

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DOCTORS OF PUBLIC HEALTH

WITH TITLES OF THESES

Joseph Asbury Bell, U. S. P. H. S., M. D. University of Colorado, 1929; M. P. H. The Johns Hopkins University, 1937. Epidemiology.

The Epidemiological Principles and Procedures Involved in a Study of the Prophylactic Value of an Alum-Precipitated Mixture of Diphtheria Toxoid and Pertussis Vaccine.

Mohyeddin Ahmed Farid, of Egypt, M. B., B. CH., Fouad First University, Cairo, 1936; D. T. M. & H., D. P. H. 1941; M. P. H. The Johns Hopkins University, 1947. Parasitology.

Relationships Between Certain Populations of *Culex* (*Culex*) Pipiens Linnaeus and *Culex* (*Culex*) *Quinquefasciatus* Say in the United States.

Abraham Gelperin, of Maryland, B. M. Cincinnati College of Medicine, 1931; M. D. 1932; M. P. H. The Johns Hopkins University, 1942. Bacteriology.

Studies of the Reiter Spirochete.

Carlos Luis González, of Venezuela, M. D. Universidad Central de Venezuela, 1938; M. P. H. The Johns Hopkins University, 1947. Epidemiology.

Epidemic Influenza in Buenos Aires, 1913-1946.

Christie Wilson Gordon, of Scotland, M. B. Ch. B. Aberdeen University, 1938; D. P. H. London School of Hygiene and Tropical Medicine, 1946. Public Health Administration.

Administration of Health Department Functions Through District Health Organizations in Urban Communities of 500,000-1,000,000 Population in the United States.

Charlotte Silverman, of Maryland, M. D. Women's Medical College of Pennsylvania, 1938; M. P. H. The Johns Hopkins University, 1942. Epidemiology.

An Appraisal of the Contribution of Mass Radiography in the Discovery of Pulmonary Tuberculosis.

(6)

DOCTORS OF MEDICINE

Paul Charles Adkins, of Maryland, A. B. The Johns Hopkins University, 1945.

Virginia Dudley Armstrong, of Pennsylvania, A. B. Bryn Mawr College, 1944.

John William Athens, of Minnesota, A. B. University of Michigan, 1945.

Edward Allen Attix, of Michigan, A. B. Dartmouth College, 1945.

Harold William Baker, of Texas, A. B. Princeton University, 1946.

Sigmond Aaron Bear, of North Carolina, Virginia Military Institute.

William Edwards Beaven, of New York, A. B. Dartmouth College, 1944.

Foster Elting Bennett, of Nebraska, A. B. Dartmouth College, 1945.

Jerrel Ward Benson, of Mississippi, University of Mississippi.

William Brannan, of West Virginia, A. B. West Virginia University, 1946.

George Cumming Buchanan, of Maryland, A. B. Duke University, 1943.

Gordon Victor Cader, of Maryland, University of Virginia.

Francis Irving Catlin, of Connecticut, Princeton University.

Verne Edward Chaney, Jr., of Illinois, Virginia Military Institute.

William Newcome Christenson, of Florida, University of North Carolina.

John Bankhead Crow, of Alabama, A. B. The Johns Hopkins University, 1946.

Walter Edward Dandy, Jr., of Maryland, Princeton University.

Worth Bagley Daniels, Jr., of the District of Columbia, Harvard University; University of North Carolina.

Rchard Hallock Doss, of Michigan, Illinois Wesleyan University; DePauw University.

James Roncie Duke, of Florida, Princeton University.

Moye Wicks Freymann, of Nebraska, S. B. Yale University, 1945.

Thomas Tilden Glasscock, of Missouri, S. B. Washburn University, 1945.

Carroll Dogan Goon, of Maine, Syracuse University.

Henry Charlton Graybeal, of Virginia, A. B. Emory and Henry College, 1943.

Lawrence Vaeth Hastings, of New York, University of Michigan; Columbia University.

Henrietta Halbert Hicks, of Connecticut, A. B. Wellesley College, 1944.

John Hinman, of California, Stanford University.

Charles Arthur Jarvis, of New York, Harvard University.

Richard James Johns, of Oregon, S. B. University of Oregon, 1947.

J. W. Johnson, of Illinois, A. B. Earlham College, 1941.

John Theodore Jones, Jr., of Ohio, Bethany College.

Janet Jordan, of Pennsylvania, A. B. Vassar College, 1944.

Avrum Labe Katcher, of Pennsylvania, Pennsylvania State College.

Charles Eugene Kibler, of Oklahoma, A. B. Stanford University, 1946.

George Adrian Kromhout, of Illinois, A. B. Bridgewater College, 1940; M. A. University of Virginia, 1941.

William Joseph Kuhns, of Pennsylvania, S. B. Muhlenberg College, 1940; M. S. Lehigh University, 1942.

Elizabeth Holcomb Longshore, of California, A. B. University of California, 1944.

David Lukens, of Kansas, Harvard University.

Harold Turner Mankin, of Maryland, Duke University; Washington and Lee University.

Francis Berchmans Maraist, of Louisiana, S. B. Louisiana State University, 1947.

Leon Joseph Marks, of Rhode Island, Brown University.

Arthur James McAdams, Jr., of California, University of California; University of Southern California.

Robert Wayne McCollum, Jr., of Texas, A. B. Baylor University, 1945.

Robert Mullen McCune, Jr., of Illinois, A. B. West Virginia University, 1946.

Dwight Charles McGoon, of Iowa, Iowa State College; St. Ambrose College.

Stanley Russel Meigs, of Alabama, A. B. University of Alabama, 1944.

William Evans Nunn, of California, Stanford University.

Alan Guyatt Parks, of England, A. B. Oxford University, 1943.

Harold Denver Paxton, of West Virginia, Princeton University.

Ruth Marjory Phillips, of Massachusetts, A. B. Mt. Holyoke College, 1944.

Clarence Mott Pickard, of Iowa, A. B. Simpson College, 1945.

Virgil Alan Place, of Indiana, A. B. Indiana University, 1944.

Richard Ray Prouty, of Iowa, University of South Dakota; University of Pennsylvania.

Goetz Wilfred Richter, of Illinois, A. B. Williams College, 1943.

Mary Catesby Riley, of New York, A. B. Bennington College, 1939.

Wallace Prescott Rowe, of Maryland, College of William and Mary.

Malcolm Edward Ruben, of Pennsylvania, Harvard University.

Forster Gehring Ruhl, of Massachusetts, Colorado College.

William Renold Schillhammer, Jr., of New Hampshire, A. B. Dartmouth College, 1945.

John Holt Sewell, of Texas, A. B. University of Texas, 1945.

Carl Swan Shultz, of California, Pomona College; McGill University.

Edwin Ide Smith, of Virginia, Harvard University.

John Morgan Thompson, of Florida, S. B. Tulane University, 1946.

James DeWayne Thornton, of Arkansas, B. M. Louisiana State University, 1943; S. B. 1944.

Richard Errington Turk, of New York, A. B. Dartmouth College, 1945.

Judson John Van Wyk, of Wisconsin, A. B. Hope College, 1943.

James Raymond Ward, Jr., of Ohio, Kenyon College.

John Ware, of North Carolina, S. B. Yale University, 1945.

Wilbur Lloyd Waterman, of Idaho, College of Idaho.

Francis Hansell Watt, of Georgia, S. B. Davidson College, 1944.

William Vance Watt, of Georgia, Davidson College; Duke University.

Robert John Leamer Waugh, of Massachusetts, S. B. Harvard University, 1943.

John Russell Weimer, of Pennsylvania, S. B. University of Pittsburgh, 1946.

Richard Pierce Wheat, of the District of Columbia, Pomona College; Occidental College.

Edith Anne Wilder, of California, A. B. University of California, 1943.

Ernest Ludlow Wilkinson, of the District of Columbia, A. B. Brigham Young University, 1946.

John Dennis Handy Wilson, of West Virginia, University of Virginia.

Frederick Joseph Ziegler, of Illinois, University of Illinois; DePauw University.

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MASTERS OF ARTS

WITH TITLES OF ESSAYS

Aaron Alexander Abston, of Alabama, A. B. University of Alabama, 1936. Physics.

Muriel Davis Adams, of Maryland, B. S. State Teachers College, Shippensburg, Pennsylvania, 1933. Romance Languages.

Abraham Albert Alperstein, of Maryland, B. S. The Johns Hopkins University, 1942. Education.

Veterans' Achievement in College.

Ludlow Hopkins Baldwin, of Maryland, A. B. The Johns Hopkins University, 1926; LL. B. Harvard Law School, 1929. Art.

Earl Leroy Barkley, of Maryland, B. S. Franklin and Marshall College, 1943. Chemistry.

Suzanne Catharine Carson, of Illinois, B. S. University of Minnesota, 1941. History.

J. L. M. Curry: Administrator of the Peabody Education Fund.

Lambuth McGeehee Clarke, of Virginia, A. B. Randolph-Macon College, 1944. English.

Dorothy Jeanne Cohen, of New York, A. B. Hunter College, 1946. Psychology.

Werner Victor Cohen, of Maryland, B. S. London University, 1944. Chemistry.

Blanche Duncan Coll, of Maryland, B. S. The Johns Hopkins University, 1943. History.

Lawrence Patrick Cooney, Jr., of Tennessee, B. S. Memphis State College, 1942. Education.

An Investigation of the Four-Year Teachers College Curriculum for the Preparation of Elementary School Teachers.

Demetrios Counes, of New York, B. A. Brooklyn College, 1947. Mathematics.

Harry Edward Crawford, of West Virginia, B. S. Athens College, 1946. Chemistry.

Stanley M. Davis, of Pennsylvania, B. S. Philadelphia College of Pharmacy and Science, 1946. Chemistry.

Erle Robert Deardorff, of Pennsylvania, A. B. Gettysburg College, 1944. Chemistry.

Patricia S. Dexter, of Maryland, A. B. Cornell University, 1946. Mathematics.

Joseph Michael Doughty, of Pennsylvania, A. B. Franklin and Marshall College, 1943. Psychology.

Stanley Austin Dunn, of California, B. S. California Institute of Technology, 1943. Chemistry.

Harry Augustine Durney, Jr., of Maryland, B. E. The Johns Hopkins University, 1947. Chemistry.

Grace Duvoisin, of Maryland, B. S. College of William and Mary, 1945. Education.

Mary and Henry—a Twin Behavior Problem.

Elizabeth Anne Eby, of Texas, B. A. Rice Institute, 1946. Chemistry.

Charles Edwards, of Maryland, A. B. The Johns Hopkins University, 1945. Physics.

L. E. Michael Fay, of Maryland. Art.

Mary Kathleen Foley, of Maryland, A. B. Notre Dame College, 1936. Biology.

A Cultural Study of Anaerobic Streptococci with Special Reference to Their Sensitivity to Penicillin and Streptomycin.

Louis Feilsenfeld Forster, of Maryland, B. A. The Johns Hopkins University, 1941. English.

William Barkley Fritz, of Maryland, Ph. B. Loyola College, 1943. Mathematics.

Leah Greenberg, of Maryland, B. S. The Johns Hopkins University, 1936. Education.

Women's Achievement in Scientific and Artistic Fields.

Stephen Joseph Groszos, of Maryland, A. B. New York University, 1946. Chemistry.

Gertrude E. Guyton, of Missouri, A. B. Colorado State College of Education, 1940. Political Economy.

A Critique of Long-Range Cost Estimates for the Federal Old-Age and Survivors Insurance System.

Robert Bruce Hand, of Maryland, B. S. Virginia Polytechnic Institute, 1942. Chemistry.

Randall Melville Hanes, of Pennsylvania, A. B. Franklin and Marshall College, 1945. Psychology.

Lois May Hassler, of Virginia, A. B. Byrn Mawr College, 1943. Classics.

Horace's Ethical Philosophy.

Diego Henao-Londoño, of Colombia, National School of Mines, Colombia. Geology.

Harold Richard Henry, of Minnesota, B. A. Carleton College, 1947. Mathematics.

Morton Wesley Huber, of Maryland, A. B. The Johns Hopkins University, 1947. Chemistry.

Paul George Jameson, of Maryland, A. B. William Jewell College, 1946. Chemistry.

François Gerard Servais Jamin, of Holland, University of Utrecht. Geology.

Helen Gladys Jones, of Pennsylvania, A. B. Cedar Crest College, 1944. Romance Languages.

Margaret Boyd Jones, of West Virginia, B. A. Sweet Briar College, 1945. Chemistry.

Dorothy Yun-Chin Lee, of Oregon, A. B. Barnard College, 1947. Education.

Intelligence Test Scores of Bilingual and Monolingual Children.

Harold Lindner, of Maryland, B. A. New York University, 1947. Education.

Comparison of Knowledge of Results as Against No Knowledge of Results in a Group of Average Adults and a Group of Schizophrenic Psychotics.

Arthur Simpson Littell, of Connecticut, A. B. Harvard College, 1944. Mathematics.

Elizabeth Hall Machen, of Maryland, A. B. Mt. Holyoke College, 1947. English.

Mary Gresham Machen, of Maryland, A. B. Goucher College, 1942. History.

The Influence of Joan of Arc in the Third Republic.

George Cameron MacKenzie, of New York, B. A. The Johns Hopkins University, 1940. History.

Carl Schurz and Imperialism.

Douglas Wyman Marden, of Massachusetts, A. B. Clark University, 1939. Geology.

Robert Henry Marshall, of New York, A. B. Columbia University, 1947. Romance Languages.

Lynn Quentin Marzulli, of New Jersey, B. S. Seton Hall College, 1942. Political Economy.

Pat Maxwell, Jr., of Maryland, B. S. Fordham University, 1939. Mathematics.

Francis Joseph McCool, S. J., of New York, A. B. Georgetown University, 1939. Oriental Seminary.

John Philip Melvin, of Maryland, A. B. The Johns Hopkins University, 1941. History.

Edward A. Pollard.

Paul Phillip Miller, of Maryland, B. S. The Johns Hopkins University, 1944. Education.

Veterans' Achievement in College.

Richard Molloy, of Maryland, B. S. Loyola College, 1943. Mathematics.

William Lambert Moran, S. J., of Indiana, A. B. Loyola University, Chicago, 1944. Oriental Seminary.

Morris Moskow, of North Carolina, B. S. University of North Carolina, 1943. Physics.

Charles Henry Murphy, Jr., of the District of Columbia, B. S. Georgetown University, 1947. Mathematics.

Elizabeth May Nester, of Pennsylvania, A. B. St. Joseph's College, 1947. Romance Languages.

Alfred Nisonoff, of New Jersey, B. S. in Chem., Rutgers University, 1942. Chemistry.

Malcolm William Oliphant, of Virginia, B. S. Georgetown University, 1947. Mathematics.

Edith Tilton Penrose, of Maryland, A. B. University of California. 1936. Political Economy.

The Discussion of Patents in Economic Doctrine.

Ervin Garrison Pritchett, of Maryland, B. S. The Citadel, 1941. Chemistry.

Joseph Vincent Ridgely, of Florida, B. A. University of Florida, 1940. English.

William Raymond Ruby, of Maryland, A. B. The Johns Hopkins University, 1943. Chemistry.

George Shapiro, of New York, B. A. Brooklyn College, 1947. Mathematics.

Solomon Shapiro, of Maryland, B. S. State Teachers College, Towson, Maryland, 1942. Education.

Emotional Factors Affecting Learning and Speech Disabilities as Revealed Through Case Histories.

Frederick Bryce Thomas, of New York, B. S. Bowdoin College, 1938. English.

Roger Calverley Tyler, of Maryland, A. B. University of New Hampshire, 1946. Art.

Edgar Leigh Venzke, of Maryland, A. B. Western Maryland College, 1941. History.

The Temperance Movement in Maryland, 1825-1918.

Daniel Waterman, of New York, B. A. Brooklyn College, 1947. Mathematics.

Hanne Weill, of New York, B. S. Queens College, 1944. Chemistry.

Kenneth Steele White, of Pennsylvania, B. A. Pennsylvania State College, 1944. Romance Languages.

John Rodney Williams, of North Carolina, B. A. Lawrence College, 1944. Political Science.

LaFollette Foreign Policy, 1916-1946.

Joseph Michael Wolfe, of Maryland, A. B. The Johns Hopkins University, 1947. Geology.

Kenneth G. Wolfson, of New York, B. A. Brooklyn College, 1947. Mathematics.

Howard Edmund Wooden, of Maryland, B. S. The Johns Hopkins University, 1946. Art.

Geometric Pottery.

John F. Yost, of Pennsylvania, B. S. Western Maryland College, 1943. Chemistry.

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DOCTORS OF PHILOSOPHY

WITH TITLES OF DISSERTATIONS

Janet Mora Aitken, of Connecticut, A. B. Smith College, 1939; M. A. The Johns Hopkins University, 1941. Geology.

Petrology and Structure of a Section of the Hebron Gneiss of Eastern Connecticut.

George Thomson Armstrong, of Maryland, B. S. University of Florida, 1939; M. S. 1943. Chemistry.

Low Temperature Heat Capacity of Columbium Nitride.

Fred Augustus Cazel, Jr., of North Carolina, A. B. University of North Carolina, 1941; M. A. The Johns Hopkins University, 1943. History.

Hubert de Burgh.

Audrey Chew, of the District of Columbia, A. B. George Washington University, 1941; M. A. 1943. English.

Joseph Hall on Conduct: The Ethics of a Seventeenth-Century Man of Letters.

Earl Alexander Coddington, of the District of Columbia. Mathematics.

On the Equations Governing the Stability of the Laminar Boundary Layer in a Compressible Fluid.

Frances Leona Colby, of California, B. A. Mills College, 1940; M. A. The Johns Hopkins University, 1943. English.

Traherne and the Cambridge Platonists: An Analytical Comparison.

Thomas Michael Donahue, of Missouri, A. B. Rockhurst College, 1942. Physics.

An Investigation of the Spontaneous Oscillations in Glow Discharges.

Ira Leonard Eisner, of New York, A. B. Brooklyn College, 1936. Physics.

Forbidden Transitions in Formaldehyde; Photoelectric Measurement on Fluorescence Decay.

David Noel Freedman, of California, A. B. University of California at Los Angeles, 1939; Th. B. Princeton Theological Seminary, 1944. Oriental Seminary.

The Evolution of Early Hebrew Orthography: The Epigraphic Evidence.

Ernest Salisbury Gohn, of Illinois, A. B. The Johns Hopkins University, 1943. English.

Seventeenth-Century Theories of the Passions and the Plays of John Dryden.

Benjamin Goldberg, of Maryland, M. A. The Johns Hopkins University, 1939. Biology.

Life History of Pelandra Virginica.

Robert Emil Hansen, of Wisconsin, B. A. Moravian College 1940; Th. B. Princeton Theological Seminary, 1943. Oriental Seminary.

Theophorous Son Names Among the Arameans and Their Neighbors.

Elinor Dorothy Hartnell, of Maryland, A. B. Lynchburg College, 1932; B. S. L. S. George Peabody College for Teachers, 1933; M. A. The Johns Hopkins University, 1945. Chemistry.

A Polarographic Investigation of Some Oximes.

Eckhard Heinrich Hess, of Maryland, A. B. Blue Ridge College, 1941; M. A. The Johns Hopkins University, 1947. Psychology.

The Development of the Chick's Responses to Light and Shade Cues of Depth.

Richard Ernest Ingram, S. J., of Ireland, B. S. University College, Dublin, Ireland, 1938; M. S. 1939. Mathematics.

Characters of the Symmetric Group.

George Richard Jackson, Jr., of Ohio, B. S. Baldwin-Wallace College, 1942; M. A. The Johns Hopkins University, 1943. Chemistry.

The Structure of Dithizone.

Philip Edward Kaltenbach, of Maryland, A. B. Loyola College, 1942. Classics.

The Non-Citizen Troops in the Roman Army (264-201 B. C.).

Frederick Kaufman, of Maryland. Chemistry.

Kinetics and Mechanism of Acid Cleavage of Diarylmercury Compounds.

James Edward King, of the District of Columbia, A. B. University of Richmond, 1938. History.

Science and Nationalism in the Government of Louis XIV, 1661-1683.

Lester Peter Kuhn, of Maryland, B. S. Alfred University, 1935; M. S. Brooklyn College, 1940. Chemistry.

The Ionization of Esters in Sulfuric Acid.

Frederick Weiss Light, Jr., of Illinois, A. B. Lafayette College, 1926; M. D. The Johns Hopkins University, 1930. Mathematics.

A Mathematical Treatment of the Two Dimensional Motion of a Perfect Fluid.

Clement Lawrence Markert, of Colorado, B. A. University of Colorado, 1940; M. A. University of California at Los Angeles, 1942. Biology.

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Sister Mary Kathleen Moore, R. S. M., of Maryland, A. B. St. Joseph's College, 1929. Education.

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Saul Moses, of Pennsylvania, B. S. Ch. E. Carnegie Institute of Technology, 1942. Chemical Engineering.

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Calvin Richard Putnam, of Maryland, A. B. The Johns Hopkins University, 1944; M. A. 1946. Mathematics.

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John David Reed, of Connecticut, A. B. Swarthmore College, 1941; M. S. Brown University, 1944. Psychology.

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Irving Jackson Saltzman, of Massachusetts, B. S. Massachusetts State College, 1944; M. A. Duke University, 1945. Psychology.

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John W. Saunders, Jr., of Oklahoma, B. S. Oklahoma University, 1940; M. S. 1941. Biology.

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Zalman Mordecai Shapiro, of New Jersey, A. B. The Johns Hopkins University, 1942; M. A. 1945. Chemistry.

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Frances Elaine Shifflett, of Texas, B. A. Texas Christian University, 1945. Geology.

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Albert Burns Stewart, of Pennsylvania, B. S. Antioch College, 1942. Physics.

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John Philip Trinkaus, II, of Connecticut, B. A. Wesleyan University, 1940; M. A. Columbia University, 1941. Biology.

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Herman Block Wagner, of Maryland, B. E. The Johns Hopkins University, 1944; M. A. 1945. Chemistry.

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Sylvan Wallach, of Maryland, B. S. Rutgers University, 1934. Mathematics.

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John Victor Walsh, of New York, B. A. College of the City of New York, 1931; M. A. Fordham University, 1934. Oriental Seminary.

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George Saylor Warthen, of Virginia, B. A. University of Virginia, 1921; M. A. Harvard University, 1924. English.

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